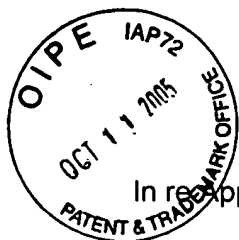


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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 99-383-B1)

In re application of:

John W. Belmont et al.

Serial No.: 10/803,738

Filing Date: March 18, 2004

For: Phosphatases Which Activate Map
Kinase Pathways

Examiner: Unassigned

Group Art Unit: 1651

Confirmation No.: 8046

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In regard to the above identified application,

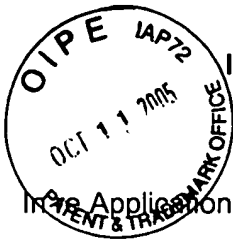
1. We are transmitting herewith the attached:
 - a) Fourth Supplemental Information Disclosure Statement;
 - b) U.S. PTO 1449 Form with a copy of 50 references; and
 - c) Return Receipt Postcard.
2. With respect to fees:
 - a) No fee is required.
 - b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490.
3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in a box addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 6 day of October, 2005.

Respectfully submitted,

Date:

Oct. 6, 2005


Emily Miao
Registration No. 35,285



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Sir:

In order to comply with discretionary regulations 37 CFR §§1.97 and 1.98, attached hereto is Form PTO-1449, copies¹ of the documents listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent.

1. "Gene Expression Technology," *Methods in Enzymology*, D. Goeddel (Ed.) Vol. 185, pages v-ix
2. A. Bradley, "Production and analysis of chimeric mice," pers. comm., and in *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, E.J. Robertson, Ed. (IRL Press, Oxford, 1987, pp. 113-152)

¹To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the file of a parent application. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated therebetween; if no such English language equivalent is cited, then none is known to undersigned.

3. A.J. Flint, et al., "Development of "substrate-trapping" mutants to identify physiological substrates of protein tyrosine phosphatases," *Proc. Natl. Acad. Sci.*, Vol. 94, pp. 1680-85 (1997)
4. A.J. Garton, et al., "Identification of p130^{cas} as a Substrate for the Cytosolic Protein Tyrosine Phosphatase PTP-PEST," *Mol. Cell Biol.*, Vol. 16, pp. 6408-6418 (1996)
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23. "Methods in Molecular Biology 24 - Computer Analysis of Sequence Data," Part 1, *Methods in Molecular Biology*, Vol. 24 (1994), A.M. Griffin et al., Ed., pages v – xi
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37. Henikoff et al., "Amino acid substitution matrices from protein blocks," *Proc. Natl. Acad. Sci. USA*, Vol. 89, pp. 10915-19 (1992)
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40. J. Barth and R. Ivarie, "Polyvinyl Alcohol Enhances Detection of Low Abundance Transcripts in Early Stage Quail Embryos in a Nonradioactive Whole Mount *In Situ* Hybridization Technique," *Biotechniques*, Vol. 17, pp. 324-326 (1994)
41. J.M. Denu, J. A. Stuckey, M.A. Saper, J.E. Dixon, "Form and Function in Protein Dephosphorylation," *Cell*, Vol. 87, pp. 361-364 (1996)
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43. Jones, et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," *Nature*, Vol. 321, pp. 522-25 (1986)
44. Kelsey et al., "Species- and tissue-specific expression of human α_1 -antitrypsin in transgenic mice," *Genes and Devel.*, Vol. 1, pp. 161-71 (1987)
45. Kitts et al., "A method for Producing Recombinant Baculovirus Expression Vectors at High Frequency," *Biotechniques*, Vol. 14, pp. 810-17 (1993)
46. Kohler, et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," *Nature*, Vol. 256, pp. 495-97 (1975)
47. Kollias et al., "Regulated Expression of Human γ -, β -, and Hybrid $\gamma\beta$ -Globin Genes in Transgenic Mice: Manipulation of the Developmental Expression Patterns," *Cell*, Vol.

46, pp. 89-94 (1986)

48. Kozbor et al., "A Human Hybrid Myeloma for Production of Human Monoclonal Antibodies," *J. Immunol.*, Vol. 133, pp. 3001 (1984)
49. Krumlauf et al., "Development Regulation of α -Fetoprotein Genes in Transgenic Mice" *Mol. Cell. Biol.*, Vol. 5, pp. 1639-48 (1985)
50. Kucherlapati, "Homologous Recombination in Mammalian Somatic Cells" *Prog. in Nucl. Acid Res. and Mol. Biol.*, Vol. 36, pp. 301-11 (1989)

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

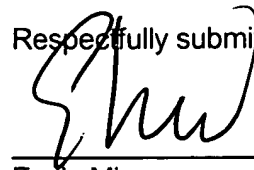
The present Disclosure Statement is being submitted in compliance with 37 CFR 1.56 insofar as an Examiner might consider any of the cited documents important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each search, will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Dated: Oct. 6, 2005

McDonnell Boehnen Hulbert & Berghoff LLP
300 South Wacker Drive
Chicago, Illinois 60606
Telephone : (312) 913-0001
Facsimile: (312) 913-0002

Respectfully submitted,



Emily Miao
Registration No. 35,285

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

Serial No.

99,383-B1

10/803,738

(Rev. 2-82)

FOURTH SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

John W. Belmont et al.

Filing Date:

March 18, 2004

Group:

1645

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

1.	"Gene Expression Technology," <i>Methods in Enzymology</i> , D. Goeddel (Ed.) Vol. 185, pages v-ix
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